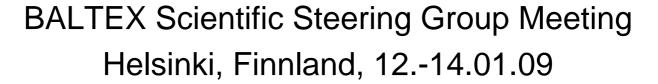




BALTEX II Data Management and Baltic Grid: Status Report

Michael Lautenschlager

World Data Center Climate
Model and Data / Max-Planck-Institute for Meteorology

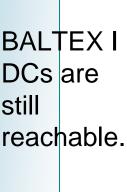








BALTEX I DCs are still











Status of BALTEX-I Data Centers



BALTEX Meteorological Data Center (BMDC)

Michael Lautenschlager, World Data Center for Climate (data(at)dkrz.de)

Transfer from DWD to WDCC: November 2003

Complete BMDC had been archived on CD: 263 MB with data until

March 2003

User requests: 43 in 2004 / 2 in 2005 / 0 in 2006 / 7 in 2007 / 0 in 2008

UNIDART data access had been offered from DWD as substitution

BALTEX Hydrological Data Center (BHDC)

Marcus Flarup, SMHI (baltexhdc(at)smhi.se)

BALTEX Radar Data Center (BRDC)

Daniel B. Michelson, SMHI (daniel.michelson(at)smhi.se)

Oceanographic Data Center for BALTEX (ODCB) at SMHI

Philip Axe, SMHI (philip.axe(at)smhi.se)

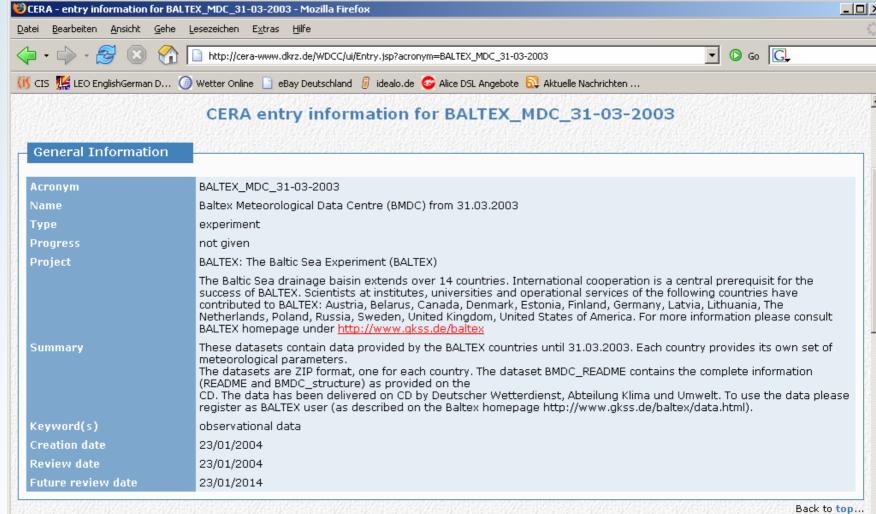






BMDC part of WDCC









Quality

Accuracy report not filled Completeness report

complete content of the CD provided by

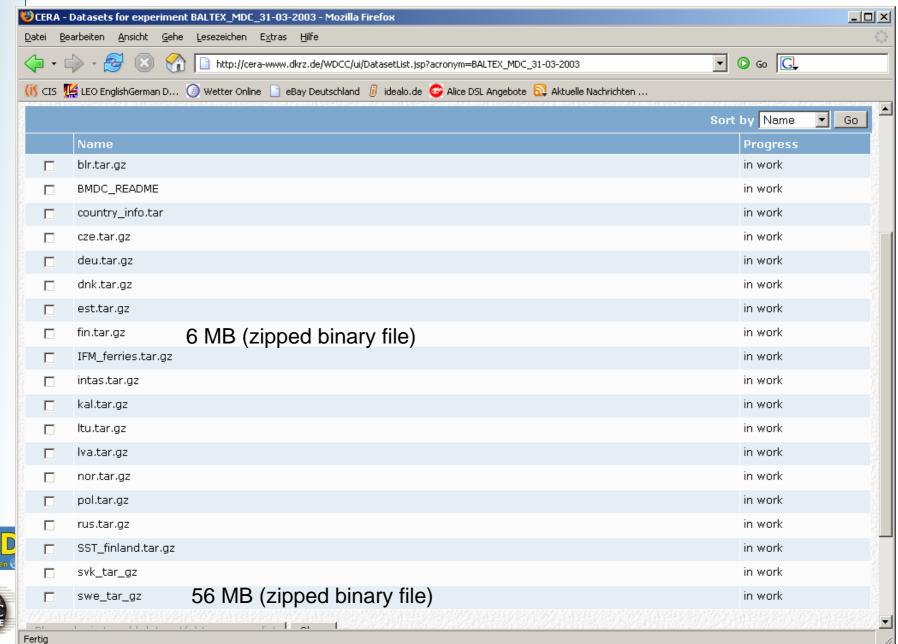
Deutscher Wetterdienst, Abteilung Klima und Umwelt.

http://www.gkss.de/baltex



Individual data sets of BALTEX-I MDC









Decision:

The BALTEX SSG meeting December 2006 in St. Petersburg decided

- (1) to stop the centralised BALTEX-I data centres and
- (2) to aim for a new data management structure which is based on networking of already existing data archives related to BALTEX research
 - Federation of operational, long-term data archives.









Implementation steps of BALTEX II data system:

- A) Web list of data archives which volunteers to participate
 - providing information on available data sets and their access procedures
 - URL: http://www.baltex-research.eu/data/data_links.html
- B) BALTEX data catalogue: web-based and searchable catalogue of available data sets including detailed access information
- C) BALTEX data portal: Web-portal including the BALTEX data catalogue and transparent data access ("one-stop-shop")





BALTEX II data link list



Bearbeiten

BALTEX - Data Centres - Mozilla Firefox

Ansicht Chronik Lesezeichen Extras

BALTEX

The Baltic Sea Experiment

Hilfe

http://www.baltex-research.eu/data/data_links.html

Background

Datei

BALTEX Phase I

BALTEX Phase II

Projects

Data Management

Publications

Organisation

International BALTEX

Secretariat

Events

Links

Internal

How to participate

BACC

BALTEX Data Bases and other accessible Data Bases relevant for BALTEX research

This page will compile a comprehensive list of accessible meteorological, climatological, hydrological, oceanographical and environmental data from the entire Baltic Sea basin. Some data are easily accessible through the linked web sites, others require a registration procedure. The list is just being set up and constanly growing, and any suggestions for new links are welcome (send to baltex@gkss.de).

The BALTEX Data Centres

- BALTEX Meteorological Data Center (BMDC) (see also below at WDCC)
- BALTEX Hydrological Data Center (BHDC)
- BALTEX Radar Data Center (BRDC)
- Oceanographic Data Center for BALTEX (ODCB) at SMHI

Meteorological and climatological data

World Data Center for Climate (WDCC)

The WDCC provides web-browser access mainly to climate model data. The "Browse Experiment" option provides tree-like access to global and regional model data. Data of potential BALTEX interest can be obtained directly from the following WDCC server:

- BALTEX (Baltex Meteorological Data Centre (BMDC); Status 31.03.2003)
- . CLM regional climate model runs (The climate version of the local model (CLM) of the DWD was used to simulate the regional climate of the

Related links

G . Google

Home | Contact | Sitemap

General Data Exchange

Policy More...

BALTEX Phase II Data Policy Document

More... **BALTEX Data Centres**

More...

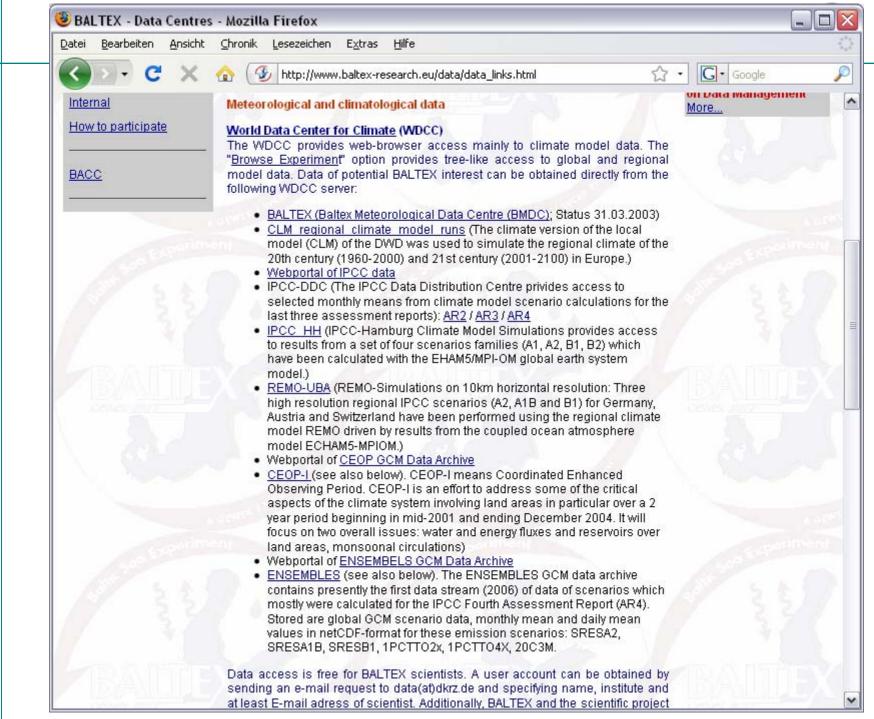
Information for Data users More...

BALTEX Working Group on Data Management More...















UNIDART

UNIDART Access Via Jörgen Nilsson - Future?

The Uniform Data Request Interface Programme, UNIDART, is financed by <u>EUMETNET</u>. The main goal of the project is the development of uniform web services to access meteorological data stored in distributed and heterogeneous data sources. If the web services are deployed at the site of a meteorological data provider, then a broker system can mediate the handling of data requests between users and this data provider. Such a broker system is <u>WebWerdis</u>, the Weather Request and Distribution System of DWD. BALTEX scientists and researchers can apply for a WebWerdis account. For registration to this "one-stop-shop", send an email to the Baltex secretariat (baltex(at)gkss.de) if you are already a registered user of BALTEX databases. For registration as new BALTEX data user, please follow the procedure given <u>here.</u>

Coordinated Enhanced Observation Period (CEOP)

CEOP (Coordinated Enhanced Observing Period) is an element of <u>WCRP-GEWEX</u> and seeks to establish a global observing system for the water cycle.

- Access to CEOP data (in-situ, satellite and model output)
- In-situ data from 16 reference sites worldwide for EOP1 (pilot phase: July to September 2001)
- In-situ data from more than 30 reference sites worldwide for EOP3/4 (October 2002 to December 2004)

ENSEMBLES RT2B: Production of regional climate scenarios for Impact Assessments

Web site of the Research Theme 2B of the EU FP6 Project <u>ENSEMBLES</u> to develop an ensemble prediction system for climate change. Data from regional climate modelling can be obtained from DMI, Copenhagen contacting RT2B coordinators <u>www.cru.uea.ac.uk/projects/ensemblesrt2b/</u> Important note: Both data archives, global and regional, are not in final state. Data collection and quality assurance has not finished.

The Climate Explorer

Web data interface for worldwide climatological data; by the <u>KNMI</u> (Royal Netherlands Meteorological Institute). Data from the BALTEX area available.

Oceanographic data

The Finnish Institute for Marine Research (FIMR)

Sea ice maps, data on hydrography, ocean color, algal distributions, actual and narth archieved BMP monitoring data

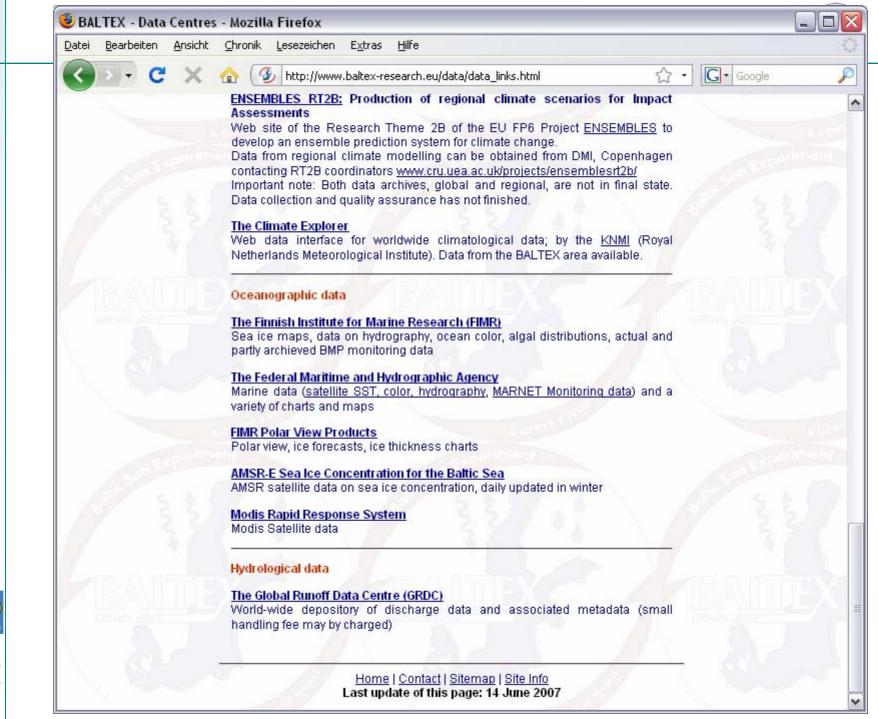






☆
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Google









BSR-CLIDANET



Baltic Sea Region Climate Data Network:

- Project idea from discussions within BWGD (Andreas, Jörgen, Michael) over 2007/2008
- Idea: Realisation of BALTEX-II data system implementation plan steps B) and C) and rescue parts of the failed BONUS proposal COFFEX
- Proposal is planned to be submitted in the 2nd call of the Baltic Sea Region Programme 2007-2013
 Objective: to make the Baltic Sea region an attractive place to invest, work and live in
- The BSR-CLIDANET data network will focus in its initial phase on data from atmosphere, ocean and the land-ocean interface.
 Central data product will be a state of the art reconstruction of the Baltic Sea Region climate for the past 40 years using existing forcing data and operational numerical models.

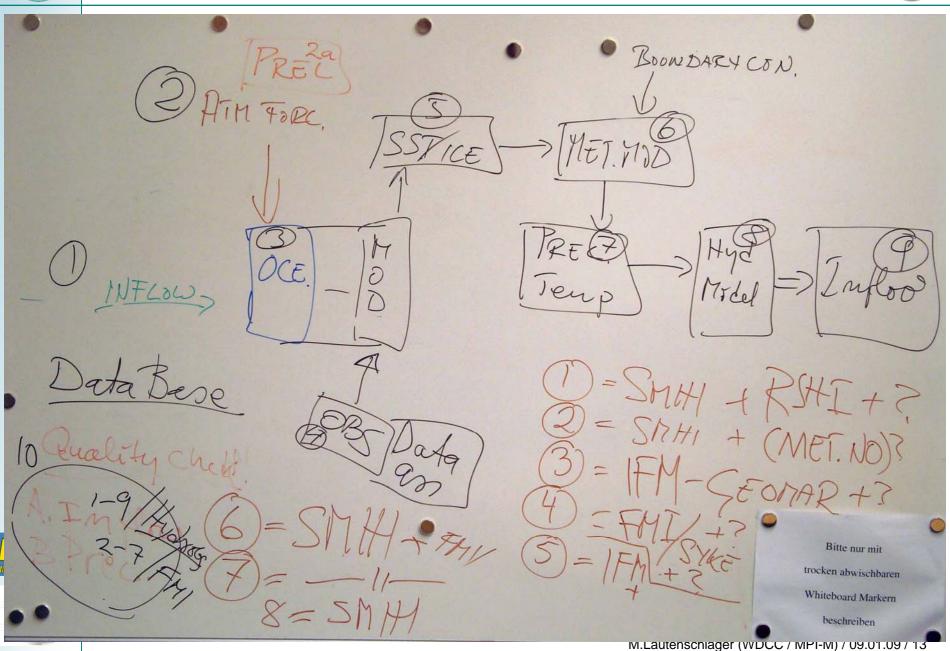






Project discussion result (Dec. 2008)







Project Activities according to Baltic Sea Region Programme



- A0: Preparation Phase
- A1: Management
- A2: Dissemination and Communication
 - User Requirements and feedback capture
 - Web portal for data and information products
- A3: Implementation of data network
 - A3.1 Data network implementation
 - A3.2 Date node integration
 - A3.3 Operation und user support

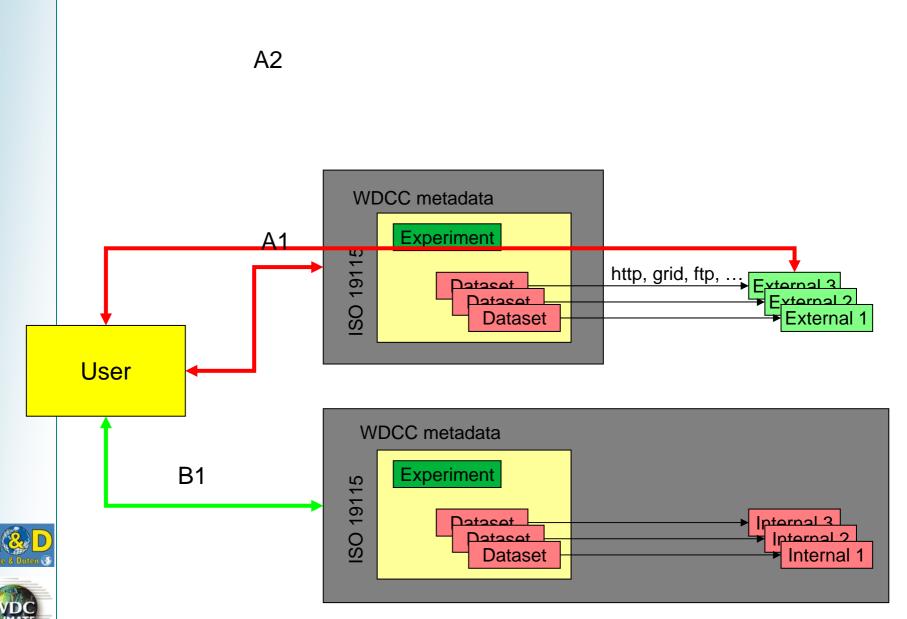






Data network architecture based on WDCC infrastructure







Project Acitivities (continued)



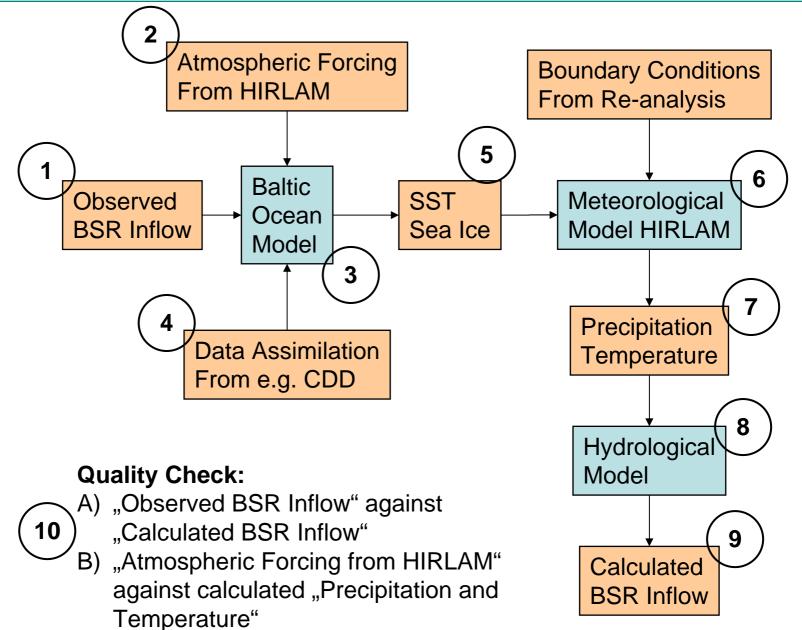
- A4: Generation of 4D climate reconstruction
 - A4.1 Generation and downscaling of forcing data
 - A4.2 Reconstruction of the ocean state
 - A4.3 Reconstruction of the atmosphere state
 - A4.4 Diagnostics and quality check

















Project Activities (continued)



- A5: Pilot Applications
 - A5.1 Analysis of user requirements
 - A5.2 Provision of data products and human-machine interfaces
 - Political and environmental level (HELCOM)
 - Coastal management and development authorities (BALTIC MASTER II)
 - ◆ <u>Fisheries</u>: Ocean circulation decisively determines the drift of fish eggs and larvae and therefore the nursery areas of important commercial fish species.
 - Offshore wind energy sector: Regional wind field variability of the BSR can be assessed. Of special interest is the quantification of risk due to ice damage.
 - Coastal water quality / ECOSUPPORT: Climate input related to wind, heat and frewhater inputs is one of the most important features required in the ECOSUPPORT project.
 - ♦ <u>Visualization to stake-holders and politicians:</u> A decision theatre (300 participants), situated in the Norrköping Visualization Centre and in portable dome (20 participants), is presently developed. The visualization will be applied as a basis for dialogues between experts, decision-makers and the public.







BSR-CLIDANET



So far envisaged partners

- IFM-GEOMAR, Leibniz Institute of Marine Sciences, Kiel, Germany
- SMHI, Swedish Meteorological and Hydrographical Institute, Sweden
- WDCC, World Data Center Climate at Max-Planck-Institute for Meteorology, Germany
- DKRZ, German Climate Computing Centre, Germany
- FMI, Finnish Meteorological Institute, Helsinki, Finland
- FIMR/Syke Finnish Institute of Marine Research, Helsinki Finland
- Russia State Hydrological Institute, St. Petersburg, Russia
- Norrköping Visualization Centre

Next steps

- Consultation with HELCOM (Wed. 14th afternoon)
- Baltic Sea Region Programme Lead Applicant Seminar in Rostock, 4-5 Febr 2009
- Proposal submission by 31 March 2009



